

Recent IBM Patents

The following patents were recently issued by the countries in which the inventions were made.

France

7,729,867 R. Hornung and G. Lebesnerais
 7,733,120 A. Desblache
 7,739,912 J. Menez, D. Esteban, C. Galand,
 and D. Mauduit
 7,739,966 P. Thirion, G. Epenay, R. Kuhne,
 and B. Laurent
 7,806,562 D. Godard

MTL Flip Flops with their Injector as Clear
 Proposal for a Fast Start-up 2400 BPS Modem Evaluation
 Process for Compressing Data Relative to Voice Signals and Device
 Applying Said Process
 Specialized Microprocessor for Computing the Sum of Products of Two
 Complex Operands
 Method and Device for Acquiring the Initial Phase of the Clock in a
 Synchronous Data Receiver

Germany

2,218,839 P. Wolf
 2,255,643 L. Doeble and H. H. Lampe
 2,313,100 S. Arnold

Apparatus for Allocating Storage Addresses to Data Elements
 Arrangements for the Indication of Differences
 Web Feeding Apparatus

Switzerland

618,820 F. Gfeller and D. Wild

Holographic Optical Satellite Communication System

United Kingdom

1,569,667 A. R. Cox and L. J. Pascual
 1,570,857 M. R. Hatchett

Record/Playback Head and Data Storage Apparatus Therefor
 Cartridge Loading Mechanism

United States

4,202,542 G. B. Lammers and R. T. Ritchie
 4,202,704 R. T. Hodgson, H. J. Hovel, and
 J. M. Woodall
 4,202,914 J. Havas and G. Paal
 4,203,051 M. H. Hallett, M. J. Heneghan, and
 B. R. Sowter
 4,203,054 B. R. Sowter
 4,203,102 A. F. Hydes
 4,203,129 S. Oktay, G. J. Torgersen, and
 A. C. Wong
 4,203,137 J. W. Beck and D. P. McCown
 4,203,166 W. F. Ehram, R. C. Elander,
 S. M. Matyas, C. H. W. Meyer,
 R. J. Sahulka, and W. L. Tuchman
 4,215,945 A. B. Habich and R. E. Hunt
 4,216,035 P. Bakos, R. E. Haggett, and
 R. M. Poliak
 4,216,354 D. J. Esteban, C. R. Galand,
 D. Mauduit, and J. Menez
 4,216,478 G. R. Giedd, A. F. Karsch, and
 S. L. Lindauer
 4,216,480 W. L. Buehner and J. D. Hill
 4,216,573 M. L. Joshi, R. K. Mason, and
 W. D. Pricer
 4,216,955 M. D. Avritt, R. A. Lamos, and
 A. A. Rosati
 4,217,183 R. L. Melcher and R. J. von Gutfeld
 4,217,577 D. Roe and B. R. Sowter
 4,217,594 K. A. Meece and T. S. Taylor
 4,217,601 R. F. DeKeersmaecker,
 D. J. DiMaria, and D. R. Young

Apparatus for Handling Flexible Sheet Material of Different Sizes
 Optical Energy Conversion
 Method of Depositing Thin Films of Small Dimensions Utilizing Silicon
 Nitride Lift-Off Mask
 Cathode Ray Tube Apparatus
 Correction Factor Signals for Cathode Ray Tubes
 Character Display System
 Bubble Generating Tunnels for Cooling Semiconductor Devices
 Dual Mode Read Preamplifier with Electrical Short Detector
 Cryptographic File Security for Multiple Domain Networks
 Paper Feeding Apparatus
 Removable Protective Coating and Process of Using Same
 Process for Compressing Data Relative to Voice Signals and Device
 Applying Said Process
 Thermal Strip Chart Recorder
 Multiple Speed Ink Jet Printer
 Three Mask Process for Making Field Effect Transistors
 Jam Clearance Mechanism for a Traveling Distributor in a Collating
 System
 Method for Locally Enhancing Electroplating Rates
 Character Graphics Color Display System
 Method and Apparatus for Determining the Velocity of a Liquid Stream of
 Droplets
 Non-Volatile Memory Devices Fabricated from Graded or Stepped Energy
 Band Gap Insulator MIM or MIS Structure

4,217,612	A. Matla and V. Zimmermann	Servo System for Track Accessing and Track Following in a Disk Drive
4,218,113	E. C. Uberbacher	Optical Fiber Connector Apparatus
4,218,641	R. W. Arnold and L. V. Galetto	Analog dc Motor Velocity Control Loop
4,218,643	R. F. Herald and M. G. Wilson	Braking System for Loaded Stepping Motor
4,218,715	M. F. Garnier	Magnetic Head Slider Assembly
4,218,738	S. M. Matyas and C. H. W. Meyer	Method for Authenticating the Identity of a User of an Information System
4,218,741	J. D. Dixon and J. C. Leininger	Paging Mechanism
4,218,742	J. E. Carlton and W. J. Schaeuble	System for Controlling a Serial Data Channel with a Microprocessor
4,218,743	R. L. Hoffman, G. R. Mitchell, and F. G. Soltis	Address Translation Apparatus
4,218,751	D. F. McManigal	Absolute Difference Generator for use in Display Systems
4,218,758	F. K. Allen and V. H. Chin	Parallel-to-Serial Binary Data Converter with Multiphase and Multisubphase Control
4,218,759	J. E. Carlton and W. J. Schaeuble	Sync in-Sync Out Calibration for Cable Length Delays
4,219,152	W. D. Couch and R. G. Minor	Dual Threshold Comparator Circuit
4,219,823	R. D. Fathergill and A. L. Wittwer	Image Inclination Control for Bi-Directional Ink Jet Printers
4,219,834	R. P. Esch, R. M. Folsom, C.-Y. Liu, V. L. Rideout, D. A. Soderman, and T. Wenning	One-Device Monolithic Random Access Memory and Method of Fabricating Same
4,219,853	P. A. Albert and T. N. Kennedy	Read/Write Thin Film Head
4,219,854	M. A. Church and R. E. Jones, Jr.	Thin Film Magnetic Head Assembly
4,219,855	R. E. Jones, Jr.	Thin Film Magnetic Head
4,220,417	C. N. Sprott and L. S. Yates	Apparatus for Producing Preliminary Character Printout of Text and Instruction Codes of Word Processing Apparatus
4,220,483	V. G. Cazcarra	Method of Increasing the Gettering Effect in the Bulk of Semiconductor Bodies Utilizing a Preliminary Thermal Annealing Step
4,220,917	M. T. McMahon, Jr.	Test Circuitry for Module Interconnection Network
4,221,000	A. Deutsch, M. H. Kryder, and W. Nystrom	Improved Bubble Domain Storage Array
4,221,002	P. M. Alt and O. Sahni	Electro-Optically Matrix-Addressed Electroluminescence Display with Memory
4,221,003	H. Chang and A. Nigam	Bubble Domain Relational Data Base System
4,221,047	B. Narken and R. R. Tummala	Multilayered Glass-Ceramic Substrate for Mounting of Semiconductor Device
4,221,376	C. Handen, D. S. Minami, and J. D. Treder	Document Cartridge and Mounting Apparatus
4,222,164	S. Triebwasser	Method of Fabrication of Self-Aligned Metal-Semiconductor Field Effect Transistors
4,222,669	A. Frosch, G. Holzinger, W. Jaerisch, and C. Scheuing	Interferometer for Determining the Shape of an Object
4,222,792	R. F. Lever, J. L. Mauer IV, A. E. Michel, and L. B. Rothman	Planar Deep Oxide Isolation Process Utilizing Resin Glass and E-Beam Exposure
4,222,816	W. P. Noble, Jr. and R. A. Unis	Method for Reducing Parasitic Capacitance in Integrated Circuit Structures
4,223,318	E. H. Bogardus, W. W. Hildenbrand, and M. Levanoni	Method and Apparatus for Compensating for Instability of a Stream of Droplets
4,223,329	C. G. Jambotkar	Bipolar Dual-Channel Charge-Coupled Device
4,223,390	E. Q. Bowers and D. L. Nelson	System and Method for Attaching Magnetic Storage Devices Having Dissimilar Track Capacities and Recording Formats
4,223,403	A. G. Konheim and L. B. Tuckerman III	Cryptographic Architecture for Use with a High Security Personal Identification System
4,224,361	L. T. Romankiw	High Temperature Lift-Off Technique
4,224,589	J. C. Tamulis	Low Energy Magnetic Actuator
4,224,627	J. L. Powell and R. R. Tummala	Seal Glass for Nozzle Assemblies of an Ink Jet Printer
4,224,667	D. O. Lewis, J. W. Reed, and G. W. Wallin	Command Queuing for I/O Adapters
4,224,684	D. E. Conner, C. R. Hoffman, and M. T. Laakso	Receive/Bypass Circuit for Subsystems in Polling System
4,225,249	H. G. Kettler, R. A. Kolpek, and W. S. Rosenbaum	Variable Character Spacing Matrix for Proportional Spacing Printing Systems
4,225,770	E. C. Moore, R. J. Rogers, and D. G. Wiechman	Welding Tubular Armature Tabs Using TIG
4,225,861	G. G. Langdon, Jr. and P. E. Mantey	Method and Means for Texture Display in Raster Scanned Color Graphic
4,225,862	O. D. Johnson	Tuning Fork Oscillator Driven Light Emitting Diode Display Unit
4,225,892	R. D. Bassett, G. A. Daughenbaugh, D. S. Fields, Jr., W. McCormick, R. W. Polleys, R. D. Silkensen, and G. Steving	Wear Resistant Magnetorestrictive Head
4,225,943	D. G. Busch	Display System for Horizontally Segmenting Text

4,225,947	E. D. Councill, H. J. Kelly, and H.-T. Lee	Three Phase Line-Addressable Serial-Parallel-Serial Storage Array
4,225,957	C. R. Doty, Jr., E. I. Muehldorf, and H. G. Shah	Testing Macros Embedded in LSI Chips
4,225,969	J. H. J. Hong	Method and Apparatus for Testing a Frequency Synthesizer in an RF Modem
4,230,523	J. J. Gajda	Etchant for Silicon Dioxide Films Deposited Atop Silicon or Metallic Silicides
4,230,773	P. Bakos	Decreasing the Porosity and Surface Roughness of Ceramic Substrates
4,230,954	L. G. Heller	Permanent or Semipermanent Charge Transfer Storage Systems
4,231,020	D. Azzis and F. X. Delaporte	Digital to Analog Converter Having Separate Bit Converters
4,231,088	W. E. Hammer, D. O. Lewis, J. W. Reed, T. S. Robinson, and K. K. Slack	Allocating and Resolving Next Virtual Pages for Input/Output
4,231,094	A. E. Desblache	Method and Device for Determining the Phase Intercept in a System Employing Phase-Shift Keying Modulation
4,231,113	H. L. Blasbalg	Anti-Jam Communications System
4,231,154	C. E. Gazdik and D. G. McBride	Electronic Package Assembly Method
4,231,816	J. J. Cuomo, A. Gangulee, and J. Kobliska	Amorphous Metallic and Nitrogen Containing Alloy Films
4,231,892	I. F. Chang and M. W. Shafer	Manganese Doped Zinc Silicate Luminescent Phosphors with III-V Oxide Substitutions
4,232,057	A. K. Ray and A. Reisman	Semiconductor Plasma Oxidation
4,232,253	J. Mortelmans	Distortion Correction in Electromagnetic Deflection Yokes
4,232,324	S. H. Tsao	Apparatus for Arranging Scanning Heads for Interlacing
4,232,363	H. A. Higuchi and S. K. Yee	AC to DC Converter with Enhanced Buck/Boost Regulation
4,232,969	J. S. Wilczynski	Projection Optical System for Aligning an Image on a Surface
4,232,975	M. H. Kane	Print Hammer Control
4,233,337	J. D. Friedman and L. H. Saraf	Method for Forming Semiconductor Contacts
4,233,620	R. E. Darrow, I. Memis, and R. M. Poliak	Sealing of Integrated Circuit Modules
4,233,644	U.-P. Hwang and R. E. Simmons	Dual-Pull Air Cooling for a Computer Frame
4,233,645	D. Balderes, J. R. Lynch, and R. A. Yacavonis	Semiconductor Package with Improved Conduction Cooling Structure
4,233,667	W. T. Devine and W. Gianopoulos	Demand Powered Programmable Logic Array